

VVV	VVV	MMM	MMM	SSSSSSSSSSSS	LLL	IIIIIIII	0000000000	
VVV	VVV	MMM	MMM	SSSSSSSSSSSS	LLL	IIIIIIII	0000000000	
VVV	VVV	MMM	MMM	SSSSSSSSSSSS	LLL	IIIIIIII	0000000000	
VVV	VVV	MMMMMM	MMMMMM	SSS	LLL	III	000	000
VVV	VVV	MMMMMM	MMMMMM	SSS	LLL	III	000	000
VVV	VVV	MMMMMM	MMMMMM	SSS	LLL	III	000	000
VVV	VVV	MMM	MMM	SSS	LLL	III	000	000
VVV	VVV	MMM	MMM	SSS	LLL	III	000	000
VVV	VVV	MMM	MMM	SSS	LLL	III	000	000
VVV	VVV	MMM	MMM	SSSSSSSSSS	LLL	III	0000000000	
VVV	VVV	MMM	MMM	SSSSSSSSSS	LLL	III	0000000000	
VVV	VVV	MMM	MMM	SSSSSSSSSS	LLL	III	0000000000	
VVV	VVV	MMM	MMM	SSS	LLL	III	000	000
VVV	VVV	MMM	MMM	SSS	LLL	III	000	000
VVV	VVV	MMM	MMM	SSS	LLL	III	000	000
VVV	VVV	MMM	MMM	SSS	LLL	III	000	000
VVV	VVV	MMM	MMM	SSS	LLL	III	000	000
VVV	VVV	MMM	MMM	SSS	LLL	III	000	000
VVV	VVV	MMM	MMM	SSS	LLL	III	000	000
VVV	VVV	MMM	MMM	SSSSSSSSSSSS	LLLLLLLLLLLLLLLL	IIIIIIII	0000000000	
VVV	VVV	MMM	MMM	SSSSSSSSSSSS	LLLLLLLLLLLLLLLL	IIIIIIII	0000000000	
VVV	VVV	MMM	MMM	SSSSSSSSSSSS	LLLLLLLLLLLLLLLL	IIIIIIII	0000000000	

```
DDDDDDDD VV VV IIIIII TTTTTTTTTT AAAAAA BBBB BBBB LL EEEEEEEEE
DDDDDDDD VV VV IIIIII TTTTTTTTTT AAAAAA BBBB BBBB LL EEEEEEEEE
DD DD DD VV VV II TT AA AA BB BB LL EE
DD DD DD VV VV II TT AA AA BB BB LL EE
DD DD DD VV VV II TT AA AA BB BB LL EE
DD DD DD VV VV II TT AA AA BBBB BB LL EE
DD DD DD VV VV II TT AA AA BBBB BB LL EE
DD DD DD VV VV II TT AAAAAA BB BB LL EE
DD DD DD VV VV II TT AAAAAA BB BB LL EE
DD DD DD VV VV II TT AA AA BB BB LL EE
DD DD DD VV VV II TT AA AA BB BB LL EE
DD DD DD VV VV II TT AA AA BBBB BB LLLLLLLLLL EEEEEEEEE
DDDDDDDD VV VV IIIIII TTTTTTTTTT AAAAAA BBBB BBBB LL EEEEEEEEE
DDDDDDDD VV VV IIIIII TTTTTTTTTT AAAAAA BBBB BBBB LL EEEEEEEEE
```

```
MM MM AAAAAA RRRRRRRR
MM MM AAAAAA RRRRRRRR
MMM MMM AA AA RR RR
MMM MMM AA AA RR RR
MM MM AA AA RR RR
MM MM AA AA RRRRRRRR
MM MM AA AA RRRRRRRR
MM MM AAAAAA RR RR
MM MM AAAAAA RR RR
MM MM AA AA RR RR
MM MM AA AA RR RR
MM MM AA AA RR RR
MM MM AA AA RR RR
```

DVI
TT_

DVI
TT_

: 1

DVI
TT_

DVI
TT_

DVI
TT_

DVI
TT_

DVI
TT_

DVI
TT_

DVI
TT_

: NA

DVI
TT_

DVI
TT_

DVI
TT_

.IDENT 'V04-000'

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ENVIRONMENT: macro library

AUTHOR: Ken Henderson

CREATION DATE: 23 Feb 1983

MODIFIED BY:

V03-021 CWH3021 CW Hobbs 29-Jul-1984
Use uppercase letters for spare codes for shadow volumes,
F\$GETDVI is sensitive to case.

V03-020 CWH3020 CW Hobbs 24-Jul-1984
Add several spare codes for shadow volumes.

V03-019 LY0507 Larry Yetto 11-JUL-1984 17:34
Add MEDIA_ID item code for NONdecoded value from UCB\$\$_MEDIA_ID

V03-018 LY0503 Larry Yetto 10-JUL-1984 10:18
Add MEDIA_NAME and MEDIA_TYPE item codes for the decoded
strings from UCB\$\$_MEDIA_ID

V03-017 EMD0095 Ellen M. Dusseault 01-May-1984
Add DVI\$_TT_DECCRT2 item code.

V03-016 LMP0221 L. Mark Pilant, 30-Mar-1984 16:49
Move the owner UIC and protection from the UCB to the ORB.

V03-015 MHB0106 Mark Bramhall 1-Mar-1984
Add DVI\$_TT_PHYDEVNAM item code.

V03-014 CWH3014 CW Hobbs 19-Feb-1984
Add item codes for dual-path and shadow-set attributes

V03-013 TCM0004 Trudy C. Matthews 04-Jan-1984
Correct the order of the UCBSL_DEVDEPND2 bit definitions for
terminal UCBs; the item codes did not correspond to the
DVIS xxx values defined for some of the bits (ANSICRT, REGIS,
BLOCK, AVO, EDIT, DECCRT, and SYSPWD).

V03-012 TCM0003 Trudy C. Matthews 09-Dec-1983
Change ALLDEVNAM from a hexadecimal string to a padded
ascii string.

V03-011 KFH0007 Ken Henderson 10 Sep 1983
Add DEVLOCKNAM and VOLSETMEM.
ALLDEVNAM: change dtype to HEXSTR
and outlen to 16.
Change length of FULLDEVNAM to 16.

V03-010 KFH0006 Ken Henderson 20 Aug 1983
Prefix bit definitions from TTDEF and TT2DEF
with "TT_" to indicate device dependence.

V03-009 KFH0005 Ken Henderson 18 Aug 1983
Remove bunches of bit definitions (STS, DEVSTS) that were
from SYSDEF.SDL - they are system-private.
Make LOGVOLNAM applicable to ANY device.
Remove HOLDSCREEN, DCL_CTRLCL, DCL_OUTBND, XON

V03-008 TCM0002 Trudy C. Matthews 24-Jun-1983
Add GETDVI item code ALLDEVNAM -- allocation class plus
device name.

V03-007 TCM0001 Trudy C. Matthews 20-Jun-1983
Add GETDVI item code LOCKID.

V03-006 KFH0004 Ken Henderson 29 Apr 1983
Add GETDVI item code FULLDEVNAM.
Also changed MOUNTCNT to ANY class from DISK class.

V03-005 ROW0171 Ralph O. Weber 12-APR-1983
Add GETDVI item code DEVCHAR2 for the second device
characteristics longword, UCBSL_DEVCHAR2. Although this
longword immediately follows UCBSL_DEVCHAR in the UCB, its
value is returned separately. This conforms to the precedent
set by UCBSL_DEVDEPEND2 and prevents GETDVI from returning any
quadword values.

V03-004 KFH0003 Ken Henderson 11 Mar 1983
Added temporary fix to PAGE item-code.

V03-003 KFH0002 Ken Henderson 9 Mar 1983
Added STS and DEVSTS and their bitfield
item-codes.

: NA

: A
DVI
ALL: A
DVI
ALT: A
DVI
ALT: A
DVI
ALT: H
DVI
HOS: H
DVI
HOS: H
DVI
HOS: H
DVI
HOS: R
DVI
REM: S
DVI
SER

: NA

: S
DVI
SHD: S
DVI
SHD

V03-002 CWH1002 CW Hobbs 1-Mar-1983
Make DVIS_PID and DVIS_ACPPID special items.
V03-001 KFH0001 Ken Henderson 23 Feb 1983
Added DEVCHAR bitfield item-codes.

DVI

: S
DVI
SHD: S
DVI
SHD: S
DVI
SHD: S
DVI
SHD

: I

: NA

: T
DVI
TTDVI
TT: M
DVI
MEDDVI
MEDDVI
MED: A
: CDVI
SHDDVI
SHDDVI
SHDDVI
SHDDVI
SHD

.MACRO DVI_GENERATE_TABLE

:++

ABSTRACT:

DVI_GENERATE_TABLE macro

This macro expands to generate multiple calls to the DVI_ITEM_CODE macro, which must be previously locally defined in the module which invokes DVI_GENERATE_TABLE.

The parameters that are passed to the DVI_ITEM_CODE macro follow:

NAME	is the name of the SYSSGETDVI item-code. The legal parameter values here are determined by the \$DVIDEF macro (in [VMSLIB.SRC]STARDEFAE.SDL).	
SPECIAL	determines if special handling is required. The legal parameter values here are: T and F.	
SOURCE	is the offset of the data in the I/O data structure.	
DTYPE	is both a datatype and a usage indicator. The legal values and examples for this parameter follow:	
	STDTIM	(CTL\$GQ_LOGIN) 64 bit time
	STDUIC	(PCBSL_OIC) user ID code
	HEXNUM	(CTL\$AQ_EXCVEC) hex number
	DECNUM	(PCBSL_BYTLM) decimal number
	PRVMSK	(PHD\$Q_PRIVMSK) privilege mask
	PRTMSK	(ORC\$W_PROT) protection mask
	STRDSC	(CTL\$GC_IMGHDRBF) string descr
	CNTSTR	(PCBST_TERMINAL) counted string
	PADSTR	(JIBST_ACCOUNT) blank padded str
	BITVEC	(UCBSL_STS) bit vector
	BITVAL	(UCBSV_ONLINE) boolean quantity
	ACPTYP	(AQB\$B_ACPTYP) ACP type
BITPOS	is the bit position for bitfield data items.	
OUTLEN	is used by EXE\$GETDVI in fetching information (number of bytes).	
STRUCT	is the user's data structure containing the information.	
DEVTYP	is a flag which indicates disk devices. Legal values are: ANY, and DISK.	


```

*****
: The item codes down to MAXBLOCK parallel the DEVTAB in SYSGETDVI.
: DO NOT REORDER OR SEPARATE ANY OF THESE CODES - ADD AT END ONLY!
*****

```

```

:NAME, SPECIAL,SOURCE,          DTYPE, BITPOS,          OUTLEN, STRUCT, DEVTYP
:

```

```

: DEVCHAR - Device characteristics

```

```

DVI_ITEM_CODE -
DEVCHAR, F,      L_DEVCHAR,      BITVEC, 0,          4,      UCB,      ANY

```

```

: DEVCLASS - Device Class

```

```

DVI_ITEM_CODE -
DEVCLASS, F,      B_DEVCLASS,      DECNUM, 0,          1,      UCB,      ANY

```

```

: DEVTYPE - Device Type

```

```

DVI_ITEM_CODE -
DEVTYPE, F,      B_DEVTYPE,      DECNUM, 0,          1,      UCB,      ANY

```

```

: DEVBUFSIZ - Width

```

```

DVI_ITEM_CODE -
DEVBUFSIZ, F,      W_DEVBUFSIZ,      DECNUM, 0,          2,      UCB,      ANY

```

```

:NAME, SPECIAL,SOURCE,          DTYPE, BITPOS,          OUTLEN, STRUCT, DEVTYP
:

```

```

: DEVDEPEND - Device Geometry

```

```

DVI_ITEM_CODE -
DEVDEPEND, F,      L_DEVDEPEND,      BITVEC, 0,          4,      UCB,      ANY

```

```

: UNIT - Binary unit number

```

```

DVI_ITEM_CODE -
UNIT, F,      W_UNIT,      DECNUM, 0,          2,      UCB,      ANY

```

```

: PID - Owner Process ID

```

```

DVI_ITEM_CODE -
PID, T,      PID,      HEXNUM, 0,          4,      UCB,      ANY

```

```

:NAME, SPECIAL,SOURCE,          DTYPE, BITPOS,          OUTLEN, STRUCT, DEVTYP
:

```

```

: OWNER - Owner UIC

```

```

DVI_ITEM_CODE -
OWNOIC, F,      L_OWNER,      STDUIC, 0,          4,      ORB,      ANY

```

```

: PROT - Volume Protection

```

```

DVI_ITEM_CODE -
VPROT, F,      W_PROT,      PRMSK, 0,          2,      ORB,      ANY

```

```

: ERRCNT - Error Count

```

```
DVI_ITEM_CODE -  
ERRCNT, F,      W_ERRCNT,      DECNUM, 0,      2,      UCB,      ANY  
:  
:NAME, SPECIAL,SOURCE,      DTYPE, BITPOS,      OUTLEN, STRUCT, DEVTYP  
:  
; OPCNT - Operation Count  
DVI_ITEM_CODE -  
OPCNT, F,      L_OPCNT,      DECNUM, 0,      4,      UCB,      ANY  
:  
; RECSIZ - Blocked record size  
DVI_ITEM_CODE -  
RECSIZ, F,      W_RECORDSZ,      DECNUM, 0,      2,      VCB,      ANY  
:  
; MAXBLOCK - Max Blocks on Vol  
DVI_ITEM_CODE -  
MAXBLOCK, F,      L_MAXBLOCK,      DECNUM, 0,      4,      UCB,      DISK  
:  
:NAME, SPECIAL,SOURCE,      DTYPE, BITPOS,      OUTLEN, STRUCT, DEVTYP  
:  
; DEVDEPEND2 - Terminal bits  
DVI_ITEM_CODE -  
DEVDEPEND2, F,      L_DEVDEPND2,      BITVEC, 0,      4,      UCB,      ANY  
:  
; REFCNT - Reference count on UCB  
DVI_ITEM_CODE -  
REFCNT, F,      W_REFC,      DECNUM, 0,      2,      UCB,      ANY  
:  
; DEVNAM - Device Name String  
DVI_ITEM_CODE -  
DEVNAM, T,      DEVNAM,      PADSTR, 0,      4,      UCB,      ANY  
:  
:NAME, SPECIAL,SOURCE,      DTYPE, BITPOS,      OUTLEN, STRUCT, DEVTYP  
:  
; VOLNAM - Volume Name (also known as the LABEL)  
DVI_ITEM_CODE -  
VOLNAM, T,      VOLNAM,      PADSTR, 0,      4,      VCB,      ANY  
:  
; SECTORS - Geometry of disk  
DVI_ITEM_CODE -  
SECTORS, F,      B_SECTORS,      DECNUM, 0,      1,      UCB,      DISK  
:  
; TRACKS - Geometry of disk  
DVI_ITEM_CODE -  
TRACKS, F,      B_TRACKS,      DECNUM, 0,      1,      UCB,      DISK  
:  
:NAME, SPECIAL,SOURCE,      DTYPE, BITPOS,      OUTLEN, STRUCT, DEVTYP  
:  
; CYLINDERS - Geometry of disk
```



```

; DVI_ITEM_CODE -
CYLINDERS, F, W_CYLINDERS, DECNUM, 0, 2, UCB, DISK
; FREEBLOCKS - Count of free blocks on disk
DVI_ITEM_CODE -
FREEBLOCKS, T, FREEBLOCKS, DECNUM, 0, 4, VCB, DISK
; LOGVOLNAM - logical volume name
DVI_ITEM_CODE -
LOGVOLNAM, T, LOGVOLNAM, CNTSTR, 0, 4, VCB, ANY
;
; NAME, SPECIAL, SOURCE, DTYPE, BITPOS, OUTLEN, STRUCT, DEVTYP
;
; VOLNUMBER - volume number of this volume
DVI_ITEM_CODE -
VOLNUMBER, T, VOLNUMBER, DECNUM, 0, 4, VCB, DISK
; VOLCOUNT - Number of volumes in vol set
DVI_ITEM_CODE -
VOLCOUNT, F, VOLCOUNT, DECNUM, 0, 0, RVT, DISK
; ROOTDEVNAM - Device name of 1st vol in set
DVI_ITEM_CODE -
ROOTDEVNAM, F, ROOTDEVNAM, PADSTR, 0, 0, RVT, DISK
;
; NAME, SPECIAL, SOURCE, DTYPE, BITPOS, OUTLEN, STRUCT, DEVTYP
;
; NEXTDEVNAM - Next device name in vol set
DVI_ITEM_CODE -
NEXTDEVNAM, F, NEXTDEVNAM, PADSTR, 0, 0, RVT, DISK
; TRANSCNT - Transaction count on volume
DVI_ITEM_CODE -
TRANSCNT, F, W_TRANS, DECNUM, 0, 2, VCB, ANY
; MOUNTCNT - Mount count for volume
DVI_ITEM_CODE -
MOUNTCNT, F, W_MCOUNT, DECNUM, 0, 2, VCB, ANY
;
; NAME, SPECIAL, SOURCE, DTYPE, BITPOS, OUTLEN, STRUCT, DEVTYP
;
; CLUSTER - Allocation cluster
DVI_ITEM_CODE -
CLUSTER, F, W_CLUSTER, DECNUM, 0, 2, VCB, DISK
; MAXFILES - Maximum files on volume
DVI_ITEM_CODE -
MAXFILES, F, L_MAXFILES, DECNUM, 0, 4, VCB, DISK
; SERIALNUM - Volume serial number

```

```

DVI_ITEM_CODE -
SERIALNUM, F, L_SERIALNUM, DECNUM, 0, 4, VCB, DISK
;
; NAME, SPECIAL, SOURCE, DTYPE, BITPOS, OUTLEN, STRUCT, DEVTYP
;
; ACPPID - ACP Process ID
DVI_ITEM_CODE -
ACPPID, T, ACPPID, HEXNUM, 0, 4, AQB, ANY
;
; ACPTYPE - ACP type
DVI_ITEM_CODE -
ACPTYPE, F, B_ACPTYPE, ACPTYP, 0, 1, AQB, ANY
;
; Device is a concealed device - BOOLEAN - 1 byte
DVI_ITEM_CODE -
CONCEALED, T, L_DEVCHAR, BITVAL, 0, 1, UCB, ANY
;
; THE FOLLOWING CODES ARE THE INDIVIDUAL BITS OF THE DEVCHAR LONGWORD
;
; NAME, SPECIAL, SOURCE, DTYPE, BITPOS, OUTLEN, STRUCT, DEVTYP
;
; DEVICE RECORD ORIENTED
DVI_ITEM_CODE -
REC, F, L_DEVCHAR, BITVAL, DEV$V_REC, 1, UCB, ANY
;
; CARRIAGE CONTROL DEVICE
DVI_ITEM_CODE -
CCL, F, L_DEVCHAR, BITVAL, DEV$V_CCL, 1, UCB, ANY
;
; DEVICE IS A TERMINAL
DVI_ITEM_CODE -
TRM, F, L_DEVCHAR, BITVAL, DEV$V_TRM, 1, UCB, ANY
;
; DEVICE IS DIRECTORY STRUCTURED
DVI_ITEM_CODE -
DIR, F, L_DEVCHAR, BITVAL, DEV$V_DIR, 1, UCB, ANY
;
; DEVICE IS SINGLE DIRECTORY STRUCTURED
DVI_ITEM_CODE -
SDI, F, L_DEVCHAR, BITVAL, DEV$V_SDI, 1, UCB, ANY
;
; NAME, SPECIAL, SOURCE, DTYPE, BITPOS, OUTLEN, STRUCT, DEVTYP
;
; SEQUENTIAL BLOCK-ORIENTED DEVICE (I.E., MAGTAPE)
DVI_ITEM_CODE -
SQD, F, L_DEVCHAR, BITVAL, DEV$V_SQD, 1, UCB, ANY
;
; DEVICE BEING SPOOLED

```



```
DVI_ITEM_CODE -
SPL, F, L_DEVCHAR, BITVAL, DEV$V_SPL, 1, UCB, ANY
; DEVICE IS AN OPERATOR
DVI_ITEM_CODE -
OPR, F, L_DEVCHAR, BITVAL, DEV$V_OPR, 1, UCB, ANY
; DISK CONTAINS RCT (DEC STANDARD 166 DISK)
DVI_ITEM_CODE -
RCT, F, L_DEVCHAR, BITVAL, DEV$V_RCT, 1, UCB, ANY
; NETWORK DEVICE
DVI_ITEM_CODE -
NET, F, L_DEVCHAR, BITVAL, DEV$V_NET, 1, UCB, ANY
;
;NAME, SPECIAL,SOURCE, DTYPE, BITPOS, OUTLEN, STRUCT, DEVTYP
;
; FILES-ORIENTED DEVICE (I.E., DISK AND MT)
DVI_ITEM_CODE -
FOD, F, L_DEVCHAR, BITVAL, DEV$V_FOD, 1, UCB, ANY
; DEVICE IS DUAL PORTED
DVI_ITEM_CODE -
DUA, F, L_DEVCHAR, BITVAL, DEV$V_DUA, 1, UCB, ANY
; DEVICE SHAREABLE
DVI_ITEM_CODE -
SHR, F, L_DEVCHAR, BITVAL, DEV$V_SHR, 1, UCB, ANY
; DEVICE IS A GENERIC DEVICE
DVI_ITEM_CODE -
GEN, F, L_DEVCHAR, BITVAL, DEV$V_GEN, 1, UCB, ANY
; DEVICE AVAILABLE FOR USE
DVI_ITEM_CODE -
AVL, F, L_DEVCHAR, BITVAL, DEV$V_AVL, 1, UCB, ANY
;
;NAME, SPECIAL,SOURCE, DTYPE, BITPOS, OUTLEN, STRUCT, DEVTYP
;
; DEVICE IS MOUNTED
DVI_ITEM_CODE -
MNT, F, L_DEVCHAR, BITVAL, DEV$V_MNT, 1, UCB, ANY
; DEVICE IS A MAILBOX
DVI_ITEM_CODE -
MBX, F, L_DEVCHAR, BITVAL, DEV$V_MBX, 1, UCB, ANY
; DEVICE MARKED FOR DISMOUNT
DVI_ITEM_CODE -
DMT, F, L_DEVCHAR, BITVAL, DEV$V_DMT, 1, UCB, ANY
; DEVICE HAS ERROR LOGGING ENABLED
```

```
; DVI_ITEM_CODE -
ELG, F, L_DEVCHAR, BITVAL, DEV$V_ELG, 1, UCB, ANY
; DEVICE IS ALLOCATED
DVI_ITEM_CODE -
ALL, F, L_DEVCHAR, BITVAL, DEV$V_ALL, 1, UCB, ANY
;
; NAME, SPECIAL, SOURCE, DTYPE, BITPOS, OUTLEN, STRUCT, DEVTYP
;
; DEVICE IS MOUNTED FOREIGN (I.E., NON-FILE STRUCTURED)
DVI_ITEM_CODE -
FOR, F, L_DEVCHAR, BITVAL, DEV$V_FOR, 1, UCB, ANY
; DEVICE IS SOFTWARE WRITE LOCKED
DVI_ITEM_CODE -
SWL, F, L_DEVCHAR, BITVAL, DEV$V_SWL, 1, UCB, ANY
; DEVICE CAPABLE OF PROVIDING INPUT
DVI_ITEM_CODE -
IDV, F, L_DEVCHAR, BITVAL, DEV$V_IDV, 1, UCB, ANY
; DEVICE CAPABLE OF PROVIDING OUTPUT
DVI_ITEM_CODE -
ODV, F, L_DEVCHAR, BITVAL, DEV$V_ODV, 1, UCB, ANY
; DEVICE ALLOWS RANDOM ACCESS
DVI_ITEM_CODE -
RND, F, L_DEVCHAR, BITVAL, DEV$V_RND, 1, UCB, ANY
;
; NAME, SPECIAL, SOURCE, DTYPE, BITPOS, OUTLEN, STRUCT, DEVTYP
;
; DEVICE IS REALTIME IN NATURE
DVI_ITEM_CODE -
RTM, F, L_DEVCHAR, BITVAL, DEV$V_RTM, 1, UCB, ANY
; DEVICE HAS READ CHECKING ENABLED
DVI_ITEM_CODE -
RCK, F, L_DEVCHAR, BITVAL, DEV$V_RCK, 1, UCB, ANY
; DEVICE HAS WRITE CHECKING ENABLED
DVI_ITEM_CODE -
WCK, F, L_DEVCHAR, BITVAL, DEV$V_WCK, 1, UCB, ANY
;
; THE FOLLOWING CODES ARE THE INDIVIDUAL BITS OF THE DEVDEPEND LONGWORD
; (AS DEFINED FOR TERMINALS: TTDEF IN STARDEFQZ.SDL)
;
; NAME, SPECIAL, SOURCE, DTYPE, BITPOS, OUTLEN, STRUCT, DEVTYP
;
```


DVI_ITEM_CODE - TT_PASSALL, F, L_DEVDEPEND,	BITVAL, TTSV_PASSALL,	1,	UCB,	ANY
DVI_ITEM_CODE - TT_NOECHO, F, L_DEVDEPEND,	BITVAL, TTSV_NOECHO,	1,	UCB,	ANY
DVI_ITEM_CODE - TT_NOTYPEAHD, F, L_DEVDEPEND,	BITVAL, TTSV_NOTYPEAHD,	1,	UCB,	ANY
DVI_ITEM_CODE - TT_ESCAPE, F, L_DEVDEPEND,	BITVAL, TTSV_ESCAPE,	1,	UCB,	ANY
DVI_ITEM_CODE - TT_HOSTSYNC, F, L_DEVDEPEND,	BITVAL, TTSV_HOSTSYNC,	1,	UCB,	ANY
DVI_ITEM_CODE - TT_TTSYNC, F, L_DEVDEPEND,	BITVAL, TTSV_TTSYNC,	1,	UCB,	ANY
DVI_ITEM_CODE - TT_SCRIPT, F, L_DEVDEPEND,	BITVAL, TTSV_SCRIPT,	1,	UCB,	ANY
:NAME, SPECIAL,SOURCE,	DTYPE, BITPOS,	OUTLEN, STRUCT, DEVTYP		
DVI_ITEM_CODE - TT_LOWER, F, L_DEVDEPEND,	BITVAL, TTSV_LOWER,	1,	UCB,	ANY
DVI_ITEM_CODE - TT_MECHTAB, F, L_DEVDEPEND,	BITVAL, TTSV_MECHTAB,	1,	UCB,	ANY
DVI_ITEM_CODE - TT_WRAP, F, L_DEVDEPEND,	BITVAL, TTSV_WRAP,	1,	UCB,	ANY
DVI_ITEM_CODE - TT_CRFILL, F, L_DEVDEPEND,	BITVAL, TTSV_CRFILL,	1,	UCB,	ANY
DVI_ITEM_CODE - TT_LFFILL, F, L_DEVDEPEND,	BITVAL, TTSV_LFFILL,	1,	UCB,	ANY
DVI_ITEM_CODE - TT_SCOPE, F, L_DEVDEPEND,	BITVAL, TTSV_SCOPE,	1,	UCB,	ANY
DVI_ITEM_CODE - TT_REMOTE, F, L_DEVDEPEND,	BITVAL, TTSV_REMOTE,	1,	UCB,	ANY
:NAME, SPECIAL,SOURCE,	DTYPE, BITPOS,	OUTLEN, STRUCT, DEVTYP		
DVI_ITEM_CODE - TT_EIGHTBIT, F, L_DEVDEPEND,	BITVAL, TTSV_EIGHTBIT,	1,	UCB,	ANY
DVI_ITEM_CODE - TT_MBXDSABL, F, L_DEVDEPEND,	BITVAL, TTSV_MBXDSABL,	1,	UCB,	ANY

DVI_ITEM_CODE - TT_NOBRDCST, F, L_DEVDEPEND,	BITVAL, TT\$V_NOBRDCST, 1,	UCB, ANY
DVI_ITEM_CODE - TT_READSYNC, F, L_DEVDEPEND,	BITVAL, TT\$V_READSYNC, 1,	UCB, ANY
DVI_ITEM_CODE - TT_MECHFORM, F, L_DEVDEPEND,	BITVAL, TT\$V_MECHFORM, 1,	UCB, ANY
DVI_ITEM_CODE - TT_HALFDUP, F, L_DEVDEPEND,	BITVAL, TT\$V_HALFDUP, 1,	UCB, ANY
:NAME, SPECIAL,SOURCE,	DTYPE, BITPOS,	OUTLEN, STRUCT, DEVTYP
DVI_ITEM_CODE - TT_MODEM, F, L_DEVDEPEND,	BITVAL, TT\$V_MODEM, 1,	UCB, ANY
DVI_ITEM_CODE - TT_OPER, F, L_DEVDEPEND,	BITVAL, TT\$V_OPER, 1,	UCB, ANY
DVI_ITEM_CODE - TT_PAGE, F, L_DEVDEPEND+3,	DECNUM, 0, 1,	UCB, ANY

: THE FOLLOWING CODES ARE THE INDIVIDUAL BITS OF THE DEVDEPND2 LONGWORD
:(AS DEFINED FOR TERMINALS: TT2DEF IN STARDEFQZ.SDL)

:NAME, SPECIAL,SOURCE,	DTYPE, BITPOS,	OUTLEN, STRUCT, DEVTYP
DVI_ITEM_CODE - TT_LOCALECHO, F, L_DEVDEPND2,	BITVAL, TT2\$V_LOCALECHO, 1,	UCB, ANY
DVI_ITEM_CODE - TT_AUTOBAUD, F, L_DEVDEPND2,	BITVAL, TT2\$V_AUTOBAUD, 1,	UCB, ANY
DVI_ITEM_CODE - TT_HANGUP, F, L_DEVDEPND2,	BITVAL, TT2\$V_HANGUP, 1,	UCB, ANY
DVI_ITEM_CODE - TT_MODHANGUP, F, L_DEVDEPND2,	BITVAL, TT2\$V_MODHANGUP, 1,	UCB, ANY
DVI_ITEM_CODE - TT_BRDCSTMBX, F, L_DEVDEPND2,	BITVAL, TT2\$V_BRDCSTMBX, 1,	UCB, ANY
DVI_ITEM_CODE - TT_DMA, F, L_DEVDEPND2,	BITVAL, TT2\$V_DMA, 1,	UCB, ANY
:NAME, SPECIAL,SOURCE,	DTYPE, BITPOS,	OUTLEN, STRUCT, DEVTYP

DVI_ITEM_CODE -
TT_ALTYPEAHD, F, L_DEVDEPND2, BITVAL, TT2\$V_ALTYPEAHD, 1, UCB, ANY

DVI_ITEM_CODE -
TT_SETSPEED, F, L_DEVDEPND2, BITVAL, TT2\$V_SETSPEED, 1, UCB, ANY

; TEMP DEFINITIONS FOR DCL SPAWN

DVI_ITEM_CODE -
TT_DCL_MAILBX, F, L_DEVDEPND2, BITVAL, TT2\$V_DCL_MAILBX, 1, UCB, ANY

DVI_ITEM_CODE -
TT_EDITING, F, L_DEVDEPND2, BITVAL, TT2\$V_EDITING, 1, UCB, ANY

DVI_ITEM_CODE -
TT_INSERT, F, L_DEVDEPND2, BITVAL, TT2\$V_INSERT, 1, UCB, ANY

DVI_ITEM_CODE -
TT_FALLBACK, F, L_DEVDEPND2, BITVAL, TT2\$V_FALLBACK, 1, UCB, ANY

DVI_ITEM_CODE -
TT_DIALUP, F, L_DEVDEPND2, BITVAL, TT2\$V_DIALUP, 1, UCB, ANY

DVI_ITEM_CODE -
TT_SECURE, F, L_DEVDEPND2, BITVAL, TT2\$V_SECURE, 1, UCB, ANY

DVI_ITEM_CODE -
TT_DISCONNECT, F, L_DEVDEPND2, BITVAL, TT2\$V_DISCONNECT, 1, UCB, ANY

DVI_ITEM_CODE -
TT_PASTHRU, F, L_DEVDEPND2, BITVAL, TT2\$V_PASTHRU, 1, UCB, ANY

DVI_ITEM_CODE -
TT_SIXEL, F, L_DEVDEPND2, BITVAL, TT2\$V_SIXEL, 1, UCB, ANY

DVI_ITEM_CODE -
TT_DRCS, F, L_DEVDEPND2, BITVAL, TT2\$V_DRCS, 1, UCB, ANY

DVI_ITEM_CODE -
TT_PRINTER, F, L_DEVDEPND2, BITVAL, TT2\$V_PRINTER, 1, UCB, ANY

DVI_ITEM_CODE -
TT_APP_KEYPAD, F, L_DEVDEPND2, BITVAL, TT2\$V_APP_KEYPAD, 1, UCB, ANY

;NAME, SPECIAL,SOURCE, DTYPE, BITPOS, OUTLEN, STRUCT, DEVTYP
;

DVI_ITEM_CODE -
TT_SYSPWD, F, L_DEVDEPND2, BITVAL, TT2\$V_SYSPWD, 1, UCB, ANY

DVI_ITEM_CODE -
TT_ANSICRT, F, L_DEVDEPND2, BITVAL, TT2\$V_ANSICRT, 1, UCB, ANY

DVI_ITEM_CODE -
TT_REGIS, F, L_DEVDEPND2, BITVAL, TT2\$V_REGIS, 1, UCB, ANY

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DVI_ITEM_CODE -  
TT_BLOCK, F, L_DEVDEPND2, BITVAL, TT2$V_BLOCK, 1, UCB, ANY  
  
DVI_ITEM_CODE -  
TT_AVO, F, L_DEVDEPND2, BITVAL, TT2$V_AVO, 1, UCB, ANY  
  
DVI_ITEM_CODE -  
TT_EDIT, F, L_DEVDEPND2, BITVAL, TT2$V_EDIT, 1, UCB, ANY  
  
DVI_ITEM_CODE -  
TT_DECCRT, F, L_DEVDEPND2, BITVAL, TT2$V_DECCRT, 1, UCB, ANY  
  
; NAME, SPECIAL, SOURCE, DTYPE, BITPOS, OUTLEN, STRUCT, DEVTYP  
;  
  
DVI_ITEM_CODE -  
STS, F, L_STS, BITVEC, 0, 4, UCB, ANY  
  
; NAME, SPECIAL, SOURCE, DTYPE, BITPOS, OUTLEN, STRUCT, DEVTYP  
;  
  
DVI_ITEM_CODE -  
DEVSTS, F, W_DEVSTS, BITVEC, 0, 2, UCB, ANY  
  
; DEVCHAR2 - Device characteristics second longword  
DVI_ITEM_CODE -  
DEVCHAR2, F, L_DEVCHAR2, BITVEC, 0, 4, UCB, ANY  
  
; FULLDEVNAM - Fully qualified device name  
DVI_ITEM_CODE -  
FULLDEVNAM, T, FULLDEVNAM, PADSTR, 0, 16, UCB, ANY  
  
; LOCKID - cluster-wide lock id  
DVI_ITEM_CODE -  
LOCKID, F, L_LOCKID, HEXNUM, 0, 4, UCB, ANY  
  
; ALLDEVNAM - Allocation class plus device name  
DVI_ITEM_CODE -  
ALLDEVNAM, T, ALLDEVNAM, PADSTR, 0, 16, UCB, ANY  
  
; VOLSETMEM - Volume set member  
DVI_ITEM_CODE -  
VOLSETMEM, T, VOLSETMEM, BITVAL, 0, 1, VCB, DISK  
  
; DEVLOCKNAM - Lock name for any device  
DVI_ITEM_CODE -  
DEVLOCKNAM, T, DEVLOCKNAM, HEXSTR, 0, 16, VCB, ANY  
  
; Item codes for dual-path and shadow-set support  
;
```


:NAME, SPECIAL, SOURCE, DTYPE, BITPOS, OUTLEN, STRUCT, DEVTYP
:

; ALLOCLASS - Allocation class of host(s)

DVI_ITEM_CODE -
ALLOCLASS, F, L_ALLOCLS, DECNUM, 0, 4, DDB, ANY

; ALT_HOST_AVAIL - Host for alternate path is active

DVI_ITEM_CODE -
ALT_HOST_AVAIL, T, ALT_HOST_AVAIL, BITVAL, 0, 1, UCB, ANY

; ALT_HOST_NAME - Name of host for alternate path

DVI_ITEM_CODE -
ALT_HOST_NAME, T, ALT_HOST_NAME, PADSTR, 0, 16, UCB, ANY

; ALT_HOST_TYPE - Type of host for alternate path

DVI_ITEM_CODE -
ALT_HOST_TYPE, T, ALT_HOST_TYPE, PADSTR, 0, 16, UCB, ANY

; HOST_AVAIL - Primary host is active

DVI_ITEM_CODE -
HOST_AVAIL, T, HOST_AVAIL, BITVAL, 0, 1, UCB, ANY

; HOST_COUNT - Number of paths to the device

DVI_ITEM_CODE -
HOST_COUNT, T, HOST_COUNT, DECNUM, 0, 4, UCB, ANY

; HOST_NAME - Name of host serving the primary path

DVI_ITEM_CODE -
HOST_NAME, T, HOST_NAME, PADSTR, 0, 16, UCB, ANY

; HOST_TYPE - Type of primary HOST {today one of 'V780', 'V750' or 'HS50'}

DVI_ITEM_CODE -
HOST_TYPE, T, HOST_TYPE, PADSTR, 0, 16, UCB, ANY

; REMOTE_DEVICE - Device is not connected to local node

DVI_ITEM_CODE -
REMOTE_DEVICE, T, REMOTE_DEVICE, BITVAL, 0, 1, UCB, ANY

; SERVED_DEVICE - Device is served to the cluster

DVI_ITEM_CODE -
SERVED_DEVICE, F, L_DEVCHAR2, BITVAL, DEV\$V_SRV, 1, UCB, ANY

:NAME, SPECIAL, SOURCE, DTYPE, BITPOS, OUTLEN, STRUCT, DEVTYP
:

; SHDW_CATCHUP_COPYING - Catchup copy in progress

DVI_ITEM_CODE -
SHDW_CATCHUP_COPYING, T, SHDW_CATCHUP_COPYING, BITVAL, 0, 1, UCB, ANY

; SHDW_MASTER - Device is master name for shadow set

DVI_ITEM_CODE -
SHDW_MASTER, T, SHDW_MASTER, BITVAL, 0, 1, UCB, ANY


```

; SHDW_MASTER_NAME - Name of the "virtual" master device for a shadow set
DVI_ITEM_CODE -
SHDW_MASTER_NAME, T, SHDW_MASTER_NAME, PADSTR, 0, 16, UCB, ANY

; SHDW_MEMBER - Device is one of the volumes making a shadow set
DVI_ITEM_CODE -
SHDW_MEMBER, F, L_DEVCHAR2, BITVAL, DEV$V_SSM, 1, UCB, ANY

; SHDW_MERGE_COPYING - Merge copy in progress
DVI_ITEM_CODE -
SHDW_MERGE_COPYING, T, SHDW_MERGE_COPYING, BITVAL, 0, 1, UCB, ANY

; SHDW_NEXT_MBR_NAME - Name of the next device in shadow set
DVI_ITEM_CODE -
SHDW_NEXT_MBR_NAME, T, SHDW_NEXT_MBR_NAME, PADSTR, 0, 16, UCB, ANY

;
; Item code for virtual terminal physical device name
;
;
; NAME, SPECIAL, SOURCE, DTYPE, BITPOS, OUTLEN, STRUCT, DEVTYP
;
; TT_PHYDEVNAM - Physical Device Name String
DVI_ITEM_CODE -
TT_PHYDEVNAM, T, TT_PHYDEVNAM, PADSTR, 0, 4, UCB, ANY

DVI_ITEM_CODE -
TT_DECCRT2, F, L_DEVDEPND2, BITVAL, TT2$V_DECCRT2, 1, UCB, ANY

; MEDIA ID name and type items
DVI_ITEM_CODE -
MEDIA_NAME, T, L_MEDIA_ID, PADSTR, 0, 4, UCB, ANY

DVI_ITEM_CODE -
MEDIA_TYPE, T, L_MEDIA_ID, PADSTR, 0, 4, UCB, ANY

DVI_ITEM_CODE -
MEDIA_ID, F, L_MEDIA_ID, BITVEC, 0, 4, UCB, ANY

;
; Add several spare codes for shadow volumes - If these are never needed
; or used, the codes can be reused in a future release.
;
DVI_ITEM_CODE -
SHDW_SPARE_BIT_1, T, SHDW_SPARE_BIT_1, BITVAL, 0, 1, UCB, ANY
DVI_ITEM_CODE -
SHDW_SPARE_BIT_2, T, SHDW_SPARE_BIT_2, BITVAL, 0, 1, UCB, ANY
DVI_ITEM_CODE -
SHDW_SPARE_STRING_1, T, SHDW_SPARE_STRING_1, PADSTR, 0, 64, UCB, ANY
DVI_ITEM_CODE -
SHDW_SPARE_STRING_2, T, SHDW_SPARE_STRING_2, PADSTR, 0, 64, UCB, ANY
DVI_ITEM_CODE -
SHDW_SPARE_INTEGER_1, T, SHDW_SPARE_INTEGER_1, HEXNUM, 0, 4, UCB, ANY

```


DVI_ITEM CODE -
SHDW_SPARE_INTEGER_2, T, SHDW_SPARE_INTEGER_2, HEXNUM, 0, 4, UCB, ANY

: ADD NEW ITEMS IMMEDIATELY IN FRONT OF THIS COMMENT
: *****
: *****
:

.ENDM DVI_GENERATE_TABLE

0434 AH-BT13A-SE
VAX/VMS V4.0

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